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# Defense Technical Information Center
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# ADP010807

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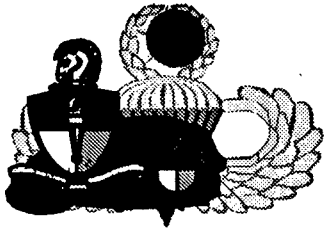

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**ARMY SPECIAL OPERATIONS BATTLE LAB**

USASOC

# ARMY SPECIAL OPERATIONS FORCES

# DIGITAL

# COMMAND AND CONTROL

# CHALLENGES

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# AGENDA

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- Army Special Operations Battle Lab Mission
- Joint and Service Digital C2
- Army Special Operations Digital C2 Emerging Environment
- Strategy to Address Challenges
- DARPA Active Templates Technology

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# ARMY SPECIAL OPERATIONS BATTLE LAB MISSION

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As the architect of the future, the Battle Lab develops concepts for post POM ARSOF, conducts experiments, and assesses and operates digital C2 and simulation systems to ensure ARSOF remain relevant, dominant and capable of Advanced Full Spectrum Operations.

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# MAJOR FUNCTIONS

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- Future visions, concepts of operation, Objective Force Capabilities, and operational and organizational concepts for post POM ARSOF

- Experiment, determine insights for DTLOMS changes, document requirements for MAA

- Assess digital C2 systems, identify those useful to ground ARSOF

- Spiral development of emerging digital C2 and simulation systems

- Support school and units with digital C2 and simulation systems

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# ARMY SPECIAL OPERATIONS BATTLE LAB

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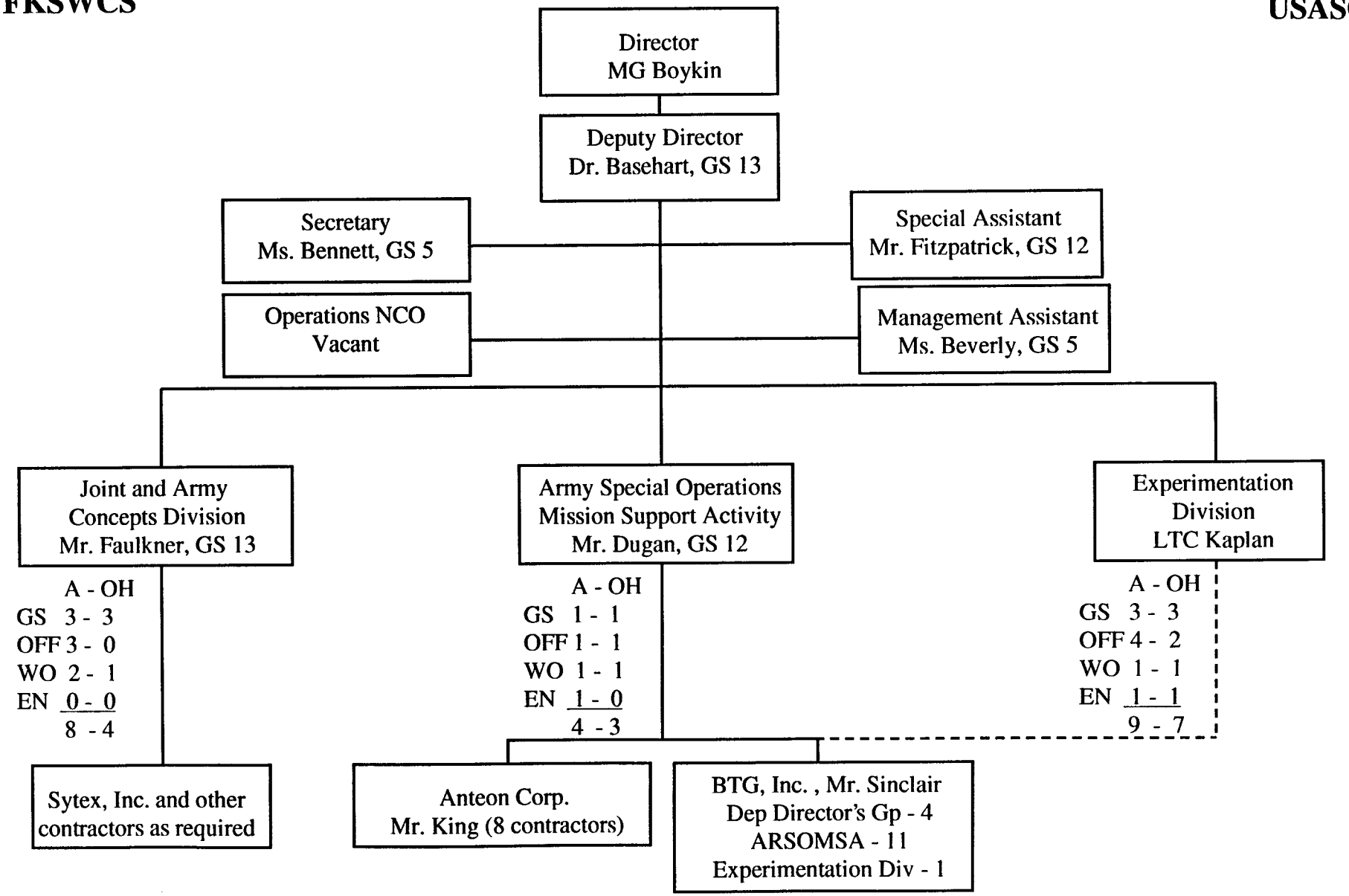

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# CURRENT AND EMERGING JOINT AND SERVICE SYSTEMS

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## C2 SYSTEMS

| | | |
|---|---|---|
| Global Command and Control System | DISA | Fielded |
| Army Battle Command System | USA | Developmental |
| Theater Battle Management Core Systems | USAF | Fielding |
| Global Command and Control System--Maritime | USN | Fielded |
| Tactical Combat Operations System | USMC | Fielded |

## MAPPING TOOLS

| | | |
|---|---|---|
| Joint Mapping Tool Kit (JMTK) | DISA | Fielded |
| Joint Mapping Tool Kit--NT | DISA | Fielding |
| C2 Personal Computer (C2PC) | DISA | Fielded |
| Commercial JMTK (CJMTK) | DISA | Contracting |
| Falcon View | SOFPARS | Fielded |

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# JOINT AND SERVICE DIGITAL C2 ARCHITECTURE

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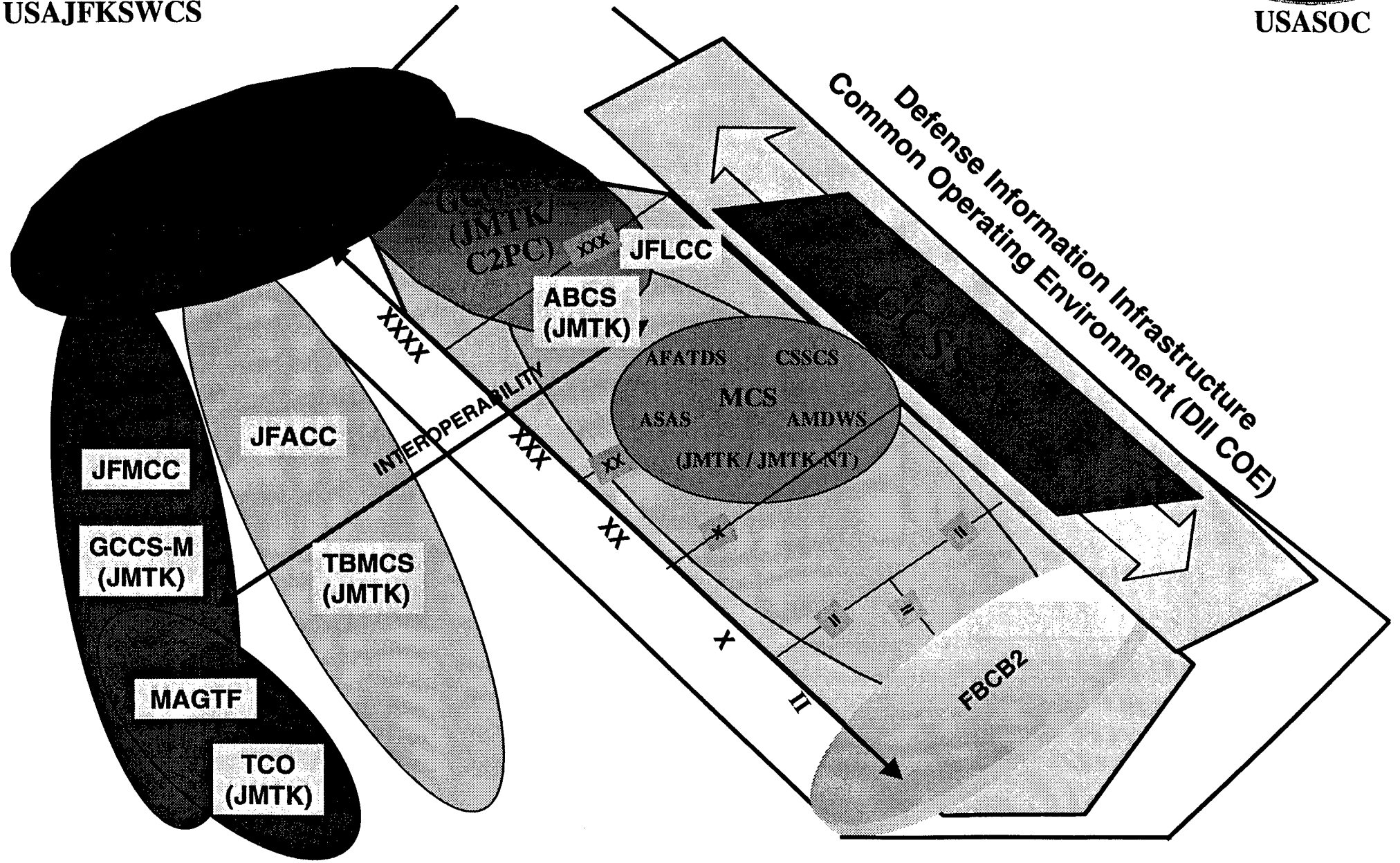
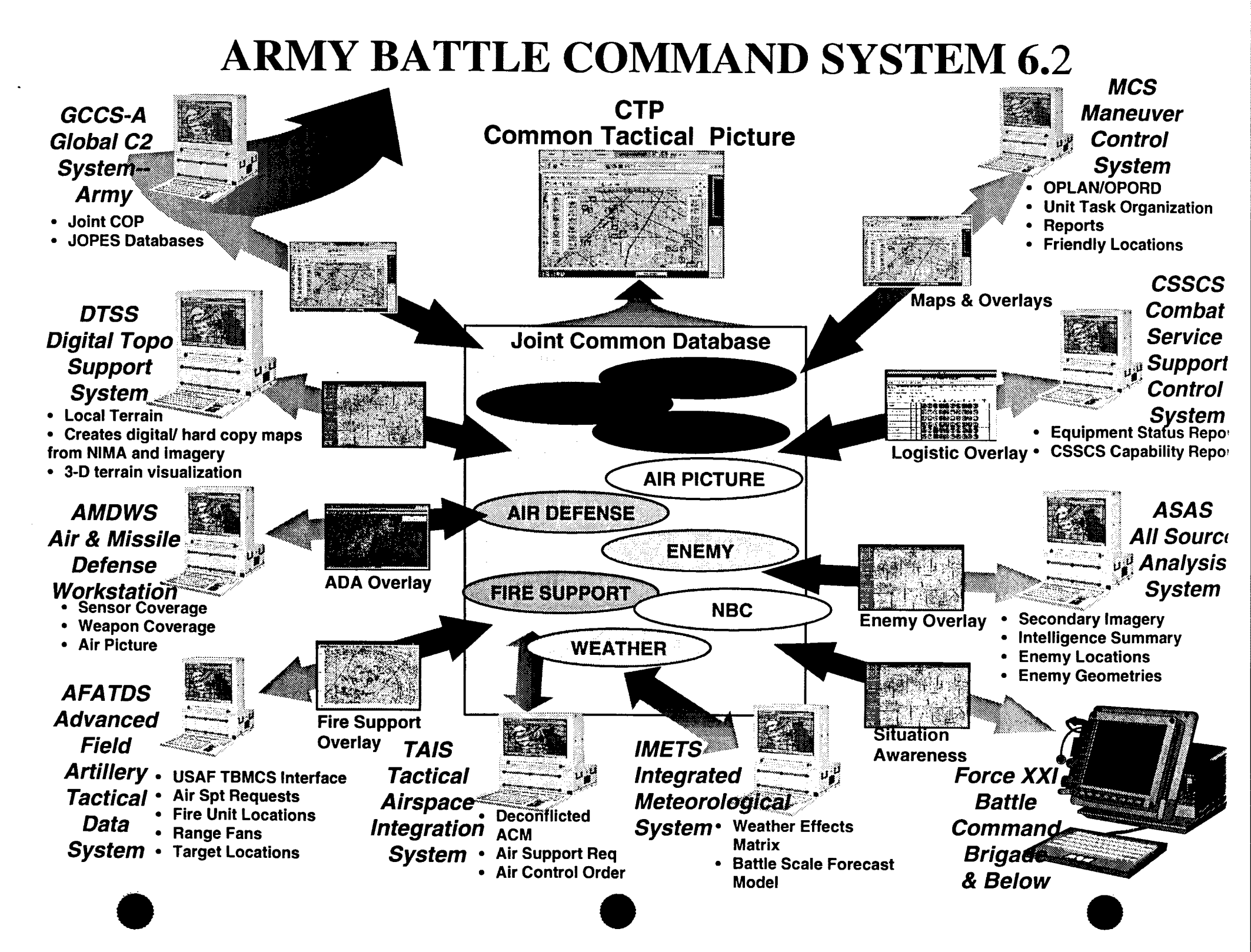
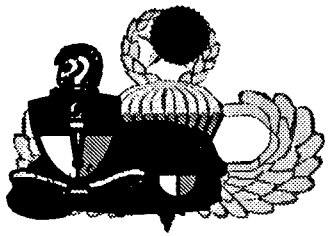


# ARMY BATTLE COMMAND SYSTEM 6.2





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# JOINT SPECIAL OPERATIONS EMERGING DIGITAL ENVIRONMENT

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| | | |
|---|---|---|
| Global Command and Control System | DISA | Fielded |
| Army Battle Command System | USA | Developmental |
| Theater Battle Management Core Systems | USAF | Fielding |
| Special Warfare Automated Mission Planning System | NSWC | Fielded |
| JDISS-SOCRATES | USSOCOM | Fielded |
| Joint Tactical Terminal | | |
| Global Broadcast System | | Fielding |
| SOF Tactical Assured Connectivity System | USSOCOM | Developmental |
| Tactical LAN | USSOCOM | Developmental |
| Joint Base Station with Outstation | USSOCOM | Fielding |
| JSOTF Tools | USSOCOM | Developmental |
| SOFPARS Air--Portable Flight Planning System | USSOCOM | Fielded |
| SOFPARS Ground | USSOCOM | Developmental |
| Multi-Mission Advanced Tactical Terminal | | Fielding |
| Secure Enroute Communication Package--Improved | USSOCOM | Developmental |
| SPEAR / Land Warrior | USSOCOM | Developmental |
| Special Operations Tactical Video System | USSOCOM | Developmental |
| Lightweight Video Reconnaissance System | USA | Fielded |
| Advanced SO Planning & Rehearsal Parachute Simulation | USSOCOM | Developmental |

# JOINT SPECIAL OPERATIONS FORCES DIGITAL C2 ARCHITECTURE

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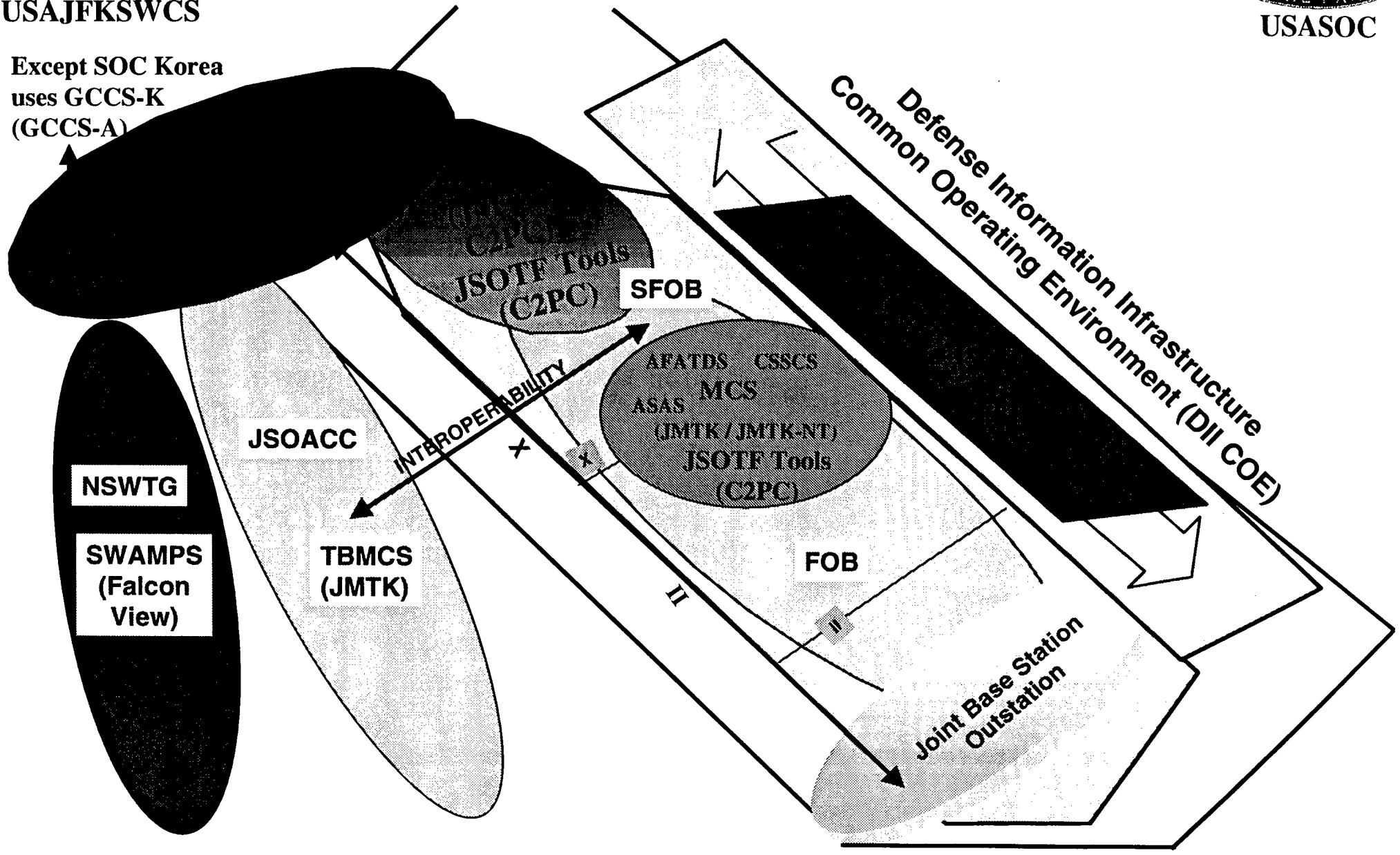

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# STRATEGY TO ADDRESS ARSOF DIGITAL C2 CHALLENGES

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- Identify ABCS functions useful to ARSOF
  - Robust ARSOF BOIP
  - Ensures interoperability with conventional Army
  - Leverages Army developed Joint and other Service interoperability

- Examine current / emerging DOD and SOF systems
  - Defense Information Systems Agency--Global C2 System
  - JSOC
  - SOAL, USSOCOM--JSOTF Tools, etc.
  - SOFPARS for detachment route planning, MDMP, etc.
  - Joint Base Station, etc.

- Develop concept / demonstrate efficient use of appropriate systems

- Digital C2 ICT/RIPT document requirements and interoperability voids

- Leverage DARPA Active Templates technology and other Programs

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# ACTIVE TEMPLATES TECHNOLOGY

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- Concept
- Joint Special Operations Task Force Tools
  - -- Synchronization Matrix
  - -- Checklist

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# DIGITAL C2 ASSESSMENT EVENTS

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- 23 Apr - 8 Jun 01 Unified Vision (USJFCOM)
- 14-18 May 01 Prairie Warrior
- 15-19 Oct 01 Division Capstone Exercise, Phase 2
- 6-13 May 02 Prairie Warrior
- 18 Jul-9 Aug 02 Millennium Challenge (USJFCOM)
- 11-19 Dec 02 Corps Advanced Warfighting Experiment
- TBD Initial Brigade Combat Team JRTC

# DISCUSSION